Art Unit: 2611

AMENDMENTS TO THE ABSTRACT:

A low-complexity and low-latency method and apparatus in multicarrier

communication systems is used for protection and transmission of the side information

related to peak-to-average power ratio (PAPR) reduction. The side information is

encoded by an error-correction code and transmitted through a plurality of reserved sub-

carriers. Modulation of the coded side information over the reserved sub-carriers is

performed separately without re-performing data modulation. Therefore, the invention

dramatically reduces implementation complexity. Determination of the related

parameters for PAPR reduction can be based on the PAPR level of the data modulated

signal with slight degradation in PAPR reduction performance or that of level of the

transmitted signal with no degradation in PAPR reduction performance.

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